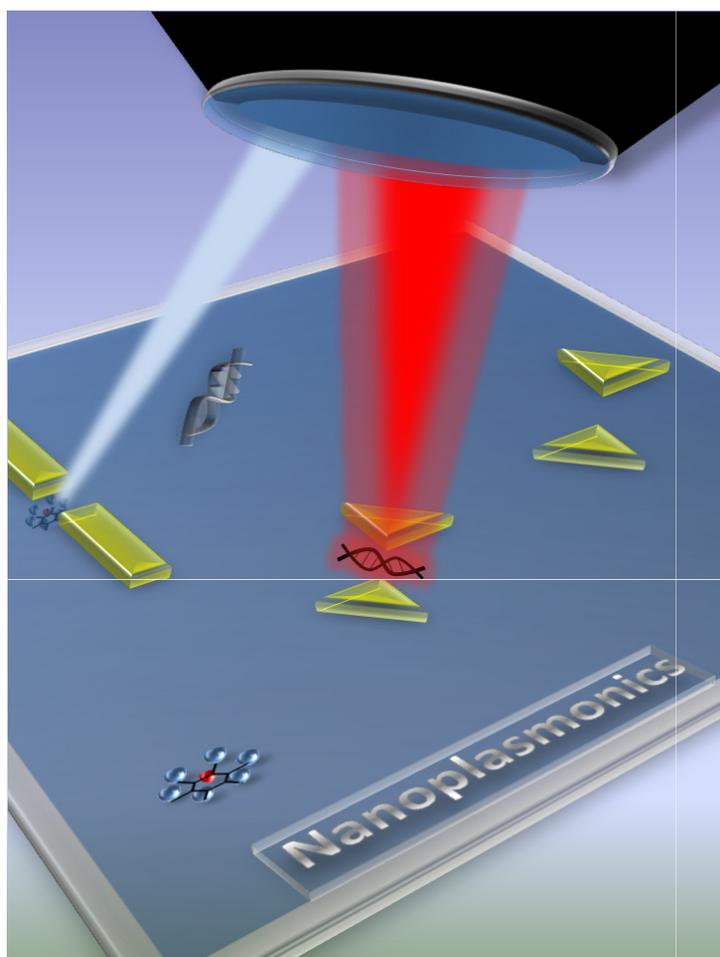




Instituto de Estructura de la Materia - Ciclo de Seminarios 2013-2014
Seminario del Departamento de Espectroscopía Nuclear,
Vibracional y de Medios Desordenados

**ADVANCES IN THEORY OF PLASMONICS:
BOOSTING LIGHT-MATTER INTERACTION**

Dr. Vincenzo Giannini
Imperial College, London, UK



Controlling and guiding light has been one of science's most influential achievements. In particular, when light interacts with a metal nanoparticle, its conduction electrons can be driven by the incident electric field in collective oscillations known as localized surface plasmon resonances. Plasmonic resonances are able to shrink light in nanometric volumes overcoming diffraction problems, allowing unprecedented control of light-matter interactions within subwavelength volumes. Such properties have attracted much interest lately, due to the implications they have both in fundamental research and in technological applications. In this seminar, I will review some of our recent results and future development in plasmonics, particularly I will focus in plasmonics as light-matter booster and the advent of new material as for example graphene.

Miércoles, 28 de Mayo de 2014, 12:00 horas.

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